

What is Claimed Is

- [c1] 1. A mobile power generation system, comprising:
 - a main trailer having
 - an engine, and
 - an electric generator turned by the engine;
 - an air filtration trailer having
 - air filtration equipment for filtering air used as inlet air to the engine;
 - an exhaust trailer having
 - a part of an exhaust silencing system for reducing engine output noise; and
 - an auxiliary trailer having
 - auxiliary equipment for use during operation of the engine.
- [c2] 2. The system of claim 1, wherein the auxiliary equipment comprises one of engine start components, fuel components, fire system bottles, and a control house.
- [c3] 3. The system of claim 1, wherein the engine is a gas turbine.
- [c4] 4. The system of claim 1, wherein the engine is a turbine.
- [c5] 5. The system of claim 4, wherein the main trailer further comprises switchgear electrically connected to the electric generator.
- [c6] 6. The system of claim 5, wherein the switchgear is ultimately hardwired to the generator.
- [c7] 7. The system of claim 6, wherein the main trailer further comprises a generator lineside cubicle, and
 - the switchgear is hardwired to the generator lineside cubicle.
- [c8] 8. The system of claim 7, wherein the main trailer further comprises
 - a turbine lube oil system; and
 - a generator lube oil system.
- [c9] 9. The system of claim 8, wherein the main trailer further comprises an exhaust collector,
 - the exhaust collector comprising a drain system.
- [c10] 10. The system of claim 1, wherein the air filtration trailer further comprises one of

a male half and a female half of a filter trailer/main trailer docking station.

- [c11] 11. The system of claim 10, wherein the main trailer further comprises the other of the male half and the female half of the filter trailer/main trailer docking station.
- [c12] 12. The system of claim 1, wherein the air filtration trailer further comprises a filter house,
the filter house having
a drain,
filters for combustion air,
filters for ventilation air,
combustion air silencers, and
ventilation air silencers.
- [c13] 13. The system of claim 1, wherein the exhaust trailer further comprises one of a male half and a female half of an exhaust trailer/main trailer docking station.
- [c14] 14. The system of claim 13, wherein the main trailer further comprises the other of the male half and the female half of the exhaust trailer/main trailer docking station.
- [c15] 15. The system of claim 1, wherein the exhaust trailer further comprises a vertical exhaust stack,
the vertical exhaust stack being reversibly rotatable from a down position to an up position,
the down position being for transport, and
the up position being for use.
- [c16] 16. A main trailer for use with a plurality of other trailers, the main trailer being capable of connecting to the other trailers to form a power generation system, the main trailer comprising:
a gas turbine;
an electric generator turned by the gas turbine;
a generator lineside cubicle; and
switchgear,
wherein the switchgear is hardwired to the generator lineside cubicle.

[c17] 17. The trailer of claim 16, wherein the other trailers comprise an air filtration trailer having air filtration equipment for filtering air used as inlet air to the gas turbine; an exhaust trailer having a part of an exhaust silencing system for reducing engine output noise; and an auxiliary trailer having auxiliary equipment for use during operation of the engine.

[c18] 18. The trailer of claim 16, further comprising an exhaust collector, the exhaust collector comprising a drain system.

[c19] 19. The trailer of claim 18, further comprising one of a male half and a female half of a filter trailer/main trailer docking station.

[c20] 20. A method of providing a mobile power generation system, comprising:
providing a main trailer having
an engine, and
an electric generator turned by the engine;
providing an air filtration trailer having
air filtration equipment for filtering air used as inlet air to the engine;
providing an exhaust trailer having
a part of an exhaust silencing system for reducing engine output noise; and
providing an auxiliary trailer having
auxiliary equipment for use during operation of the engine;
attaching the air filtration trailer to the main trailer;
attaching the exhaust trailer to the main trailer; and
attaching the auxiliary trailer to the main trailer.

[c21] 21. The method of claim 20, wherein the auxiliary equipment comprises one of engine start components, fuel components, lube oil cooler, fire system bottles, and a control house.

[c22] 22. The method of claim 20, wherein the engine is a gas turbine.

[c23] 23. The method of claim 20, wherein the engine is a turbine.

[c24] 24. The method of claim 23, wherein the main trailer further comprises

switchgear electrically connected to the electric generator.

- [c25] 25. The method of claim 24, wherein the switchgear is ultimately hardwired to the generator.
- [c26] 26. The method of claim 25, wherein the main trailer further comprises a generator lineside cubicle, and
the switchgear is hardwired to the generator lineside cubicle.
- [c27] 27. The method of claim 26, wherein the main trailer further comprises
a turbine lube oil system; and
a generator lube oil system.
- [c28] 28. The method of claim 27, wherein the main trailer further comprises an exhaust collector,
the exhaust collector comprising a drain system.
- [c29] 29. The method of claim 20, wherein the air filtration trailer further comprises one of a male half and a female half of a filter trailer/main trailer docking station.
- [c30] 30. The method of claim 29, wherein the main trailer further comprises the other of the male half and the female half of the filter trailer/main trailer docking station.
- [c31] 31. The method of claim 20, wherein the air filtration trailer further comprises a filter house,
the filter house having
a drain,
filters for combustion air,
filters for ventilation air,
combustion air silencers, and
ventilation air silencers.
- [c32] 32. The method of claim 20, wherein the exhaust trailer further comprises one of a male half and a female half of an exhaust trailer/main trailer docking station.
- [c33] 33. The method of claim 32, wherein the main trailer further comprises the other of the male half and the female half of the exhaust trailer/main trailer docking station.

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34. The method of claim 20, wherein the exhaust trailer further comprises a vertical exhaust stack, the vertical exhaust stack being reversibly rotatable from a down position to an up position, the down position being for transport, and the up position being for use.

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